

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | |
|-------------------------------|---|----------------------------|
| In re Application of: |) | |
| |) | |
| Yoshihisa WARASHINA et al. |) | |
| |) | |
| Application No.: 10/589,604 |) | Confirmation No.: 2689 |
| |) | |
| Filed: August 13, 2007 |) | Group Art Unit: 2874 |
| |) | |
| Allowed: June 2, 2008 |) | Examiner: Daniel Petkovsek |
| |) | |
| For: OPTICAL WIRING BOARD AND |) | |
| METHOD FOR MANUFACTURING |) | |
| OPTICAL WIRING BOARD |) | |

MAIL STOP ASSIGNMENT RECORDATION SERVICES

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

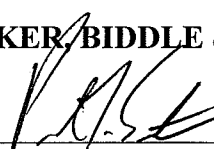
REQUEST FOR RETURN OF RECORDED ASSIGNMENTS

Assignments for the above-identified application were filed in the U.S. Patent and Trademark Office on June 4, 2007 and on August 13, 2007. To date, no recorded assignments have been received. A copy of the Recordation Form Cover Sheets (PTO-1595) along with copies of the Assignments and the PTO postcard receipts submitted June 4, 2007 and August 13, 2007 are attached.

Please promptly send the recorded assignments to the undersigned. Thank you.

Respectfully submitted,

DRINKER, BIDDLE & REATH, LLP


By: Peter J. Sistare, Reg. No. 48,183

Dated: June 9, 2008
Customer No.: 55694
DRINKER BIDDLE & REATH LLP
1500 K Street, N.W., Suite 1100
Washington, DC 20005-1209
Tel: (202) 842-8800
Fax: (202)-204-0289



DrinkerBiddle&Reath

A Pennsylvania Limited Liability Partnership

L L P

Suite 1100

1500 K Street, N.W.

Washington, DC 20005-1209

202-842-8800 Phone

202-842-8465/66 Fax

The official date stamp of the United States Patent and Trademark Office hereon is acknowledgment of the receipt of:

I. Application

- ☐ A. Application Transmittal
- ☐ Provisional
 - ☐ Utility
 - ☐ Design
 - ☐ Plant
- ☐ B. Continuation/Divisional/Continuation-In-Part
- ☐ § 1.53(b)
 - ☐ § 1.53 (f) – fee not included
- ☐ C. English Translation of Specification: _____ Sheet(s) (Plus Translation Verification Sheet)
- ☐ D. _____ Total Claim(s)
- ☐ E. _____ Sheets of Replacement Drawing(s) (containing Figures)
- ☐ F. Small Entity
- ☒ G. Combined Declaration & Power of Attorney

II. Prosecution Documents

- ☐ A. Notice of Appeal
- ☐ B. Preliminary Amendment
- ☐ C. Information Disclosure Statement
- ☐ PTO Form 1449
 - ☐ non-US references
 - ☐ PCT/ISA/210 (International Search Report dated)

III. Post Issuance

- ☐ A. _____ Maintenance Fee
- ☐ B. Request for Correction of Letters Patent

IV. Recordation

- ☒ A. Assignment
- ☐ B. Security Interest Agreement (Number of Patents Covered: _____)
- ☐ C. Change of Name, Merger or Other Transfer Document (Number of Patents Covered: _____)
- ☒ D. PTO Recordation Form Cover Sheet

VI. Payment

- ☒ Check No. 37967 for \$170.00
- ☐ Fee Transmittal PTO/SB/17
- ☐ Deposit Account No. _____ for \$ _____

VII. Other

- ☒ A. Response to Notification of Missing Requirements
- ☒ B. Copy of Notification of Missing Requirements
- ☐ C. PCT/IB/338 (International Preliminary Examination Report)
- ☐ D. PCT/IB/373
- ☐ E. PCT/ISA/237

| | |
|-------------------------------|--|
| Date: | June 4, 2007 |
| Client No.: | 46884 |
| Attorney Docket No./File No.: | 46884-5506 |
| Matter No.: | 230288 |
| Title: | Optical Wiring Board And Method For Manufacturing Optical Wiring Board |
| Inventor(s): | Yoshihisa WARASHINA et al. |
| Application/Patent No. | 10/589,604 |
| Attorney: | John G. Smith |
| Confirmation No. | 2689 |
| Secretary: | Faiza Shahzadi |

⑦ mgb 6/9/07

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | |
|--|---|----------------------------|
| In re Application of: Yoshihisa WARASHINA et al. |) | Confirmation No.: 2689 |
| U.S. Application No.: 10/589,604 |) | Group Art Unit: Unassigned |
| Filed: August 16, 2006 |) | Examiner: Unassigned |
| For: OPTICAL WIRING BOARD AND METHOD |) | |
| FOR MANUFACTURING OPTICAL WIRING |) | |
| BOARD |) | |

MAIL STOP PCT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS
UNDER 35 U.S.C. § 371 IN THE U.S. DESIGNATED/ELECTED OFFICE (DO/EO/US)

1. This replies to the Notification of Missing Requirements (Form PCT/DO/EO/905) mailed April 2, 2007.

A copy of the Notification of Missing Requirements (Form PCT/DO/EO/905) is enclosed.

2. Declaration Or Oath

☒ No declaration or oath was filed. Enclosed is the original Combined Declaration and Power of Attorney. Attainment of a Declaration and Assignment signature for inventor Hajime TAKEYAMA is still in process.

☐ The specification attached to the declaration is a copy of the specification and any amendments thereto which were filed in the PTO to obtain the filing date.

☐ The declaration or oath which was filed was determined to be defective. A new original Combined Declaration and Power of Attorney is attached.

3. English Translation of Non-English Language Papers

☐ Submitted herewith is a verified English translation of the non-English language application papers as originally filed. It is requested that this translation be used as the copy for examination purposes in the PTO.

☐ Also enclosed is the Verification of Translation Document

4. Small Entity Statement(s)

☐ Applicant(s) hereby assert small entity status.

5. Fee Calculation

| | | | Basic National Stage Fee: \$300.00 | Previously Paid |
|---|--------------|--------------|---------------------------------------|-----------------|
| | Number Filed | Number Extra | at a Rate of | |
| Total Claims | 12 -20 = | 0 | \$50.00 each= | \$0.00 |
| Independent Claims | 3 - 3 = | 0 | \$200.00 each= | \$0.00 |
| Multiple dependent claim(s), if any | | | \$360.00 | \$0.00 |
| Missing Requirements Surcharge Fee | | | \$130.00 | \$130.00 |
| Application Size Fee \$250.00 for each additional 50 sheets that exceeds 100 | | | | \$0.00 |
| Application Search Fee | | | \$400.00 | Previously Paid |
| Examination Fee | | | \$200.00 | Previously Paid |
| | | | SUB-TOTAL = | \$130.00 |
| Fee For Application Filed With A Non-English Specification (37 C.F.R. § 1.17(k) and § 1.52(d)) | | | \$130.00 | \$0.00 |
| Fee For Processing and retention of application (37 C.F.R. § 1.21(l) and § 1.53(d)) | | | \$130.00 | \$0.00 |
| | | | TOTAL FILING FEE = | \$130.00 |

6. Extension of Time

The proceedings herein are for a patent application and the provisions of 37 C.F.R. § 1.136(a) apply.

☐ Applicants petition for an extension of time, the fees for which are set out in 37 C.F.R. §§ 1.17(a)-(d), for the total number of months checked below:

| | Total Months Requested | Extension Fee | Extension Fee [Small Entity] |
|--------------------------|------------------------|---------------|------------------------------|
| <input type="checkbox"/> | One month | \$120.00 | \$60.00 |
| <input type="checkbox"/> | Two months | \$450.00 | \$225.00 |
| <input type="checkbox"/> | Three months | \$1,020.00 | \$510.00 |
| <input type="checkbox"/> | Four months | \$1,590.00 | \$795.00 |
| <input type="checkbox"/> | Five months | \$2,160.00 | \$1,080.00 |

Extension of time fee due with this request: \$0.00

If an additional extension of time is required, please consider this a Petition therefor.

☒ Applicant believes that no extension of time is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.

7. Fee Payment

| | | |
|-----------------------|-----------------|----------|
| The total fee due is: | Completion Fees | \$130.00 |
| | Assignment Fees | \$40.00 |
| | Total Fee Due | \$170.00 |


- ☒ A check in the amount of \$170.00 to cover the above fees is enclosed
- ☐ The Commissioner is hereby authorized to charge the total fee due to Deposit Account 50-0573.
- ☒ **Except** for issue fees payable under 37 C.F.R. §1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R §1.16 and §1.17 which may be required, or credit any overpayment to Deposit Account No. 50-0573.

8. Additional papers enclosed.

- ☐ PCT/IB/338 English translation of the International Preliminary Examination Report
- ☐ PCT/IB/373
- ☐ PCT/ISA/237
- ☐ PCT/ISA/210 (International Search Report dated)
- ☐ Information Disclosure Statement
- ☐ Form PTO-1449, non-US patent documents as listed
- ☒ Assignment Recordation Cover Sheet (PTO Form-1595)
- ☒ Assignment of the invention to HAMAMATSU PHOTONICS K.K.

Respectfully submitted,

DRINKER BIDDLE & REATH LLP


 John G. Smith, Reg. No. 33,818

Date: June 4, 2007
 Customer No. 055694
 DRINKER BIDDLE & REATH LLP
 1500 K. Street, N.W., Suite 1100
 Washington, DC 20005-1209
 Tel: (202) 842-8800
 Fax: (202) 204-0289

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

Attorney Docket No.: 46884-5506

To the Commissioner for Patents

ATTN: MAIL STOP ASSIGNMENT RECORDATION SERVICES

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- 1) Yoshihisa WARASHINA
- 2) Yasuji HOSHINO
- 3) Masaaki MUTO

Additional names of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: HAMAMATSU PHOTONICS K.K.

Address: 1126-1, Ichino-cho,
Hamamatsu-shi, Shizuoka 435-8558 Japan

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other _____

Execution Date: (1,3) August 25, 2006; (2) August 29, 2006

Additional name(s) & address(es) attached?

☐ Yes ☒ No

4. New Application number(s) or patent number(s):

If this document is being filed together with a new application the execution date of the application is:

A. Patent Application No.(s) 10/589,604

B. Patent No.(s)

Additional numbers attached: ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: John G. Smith

Internal Address: DRINKER BIDDLE & REATH LLP
Customer No. 55694

Street Address: 1500 K. Street, N.W., Suite 1100

City: Washington State: D.C. Zip: 20005-1209

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. §3.41): \$40.00

- ☒ Enclosed
- ☐ Authorized to be charged to Deposit Account 50-0573

8. Deposit Account No. 50-0573

(Attach duplicate page if paying by deposit account)

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

John G. Smith, Reg. No. 33,818

Name of Person Signing


Signature

June 4, 2007

Date

Total number of pages including cover sheet, attachments and documents: 2

ASSIGNMENT

Whereas, I/we,

| <u>Name</u> | <u>Address</u> |
|------------------------|--|
| 1) Yoshihisa WARASHINA | c/o Hamamatsu Photonics K.K., 1126-1, Ichino-cho, Hamamatsu-shi, Shizuoka 435-8558 Japan |
| 2) Yasuji HOSHINO | c/o Hamamatsu Photonics K.K., 1126-1, Ichino-cho, Hamamatsu-shi, Shizuoka 435-8558 Japan |
| 3) Hajime TAKEYAMA | c/o Hamamatsu Photonics K.K., 1126-1, Ichino-cho, Hamamatsu-shi, Shizuoka 435-8558 Japan |
| 4) Masaaki MUTO | c/o Hamamatsu Photonics K.K., 1126-1, Ichino-cho, Hamamatsu-shi, Shizuoka 435-8558 Japan |

hereinafter called assignor(s), have invented certain improvements in
OPTICAL WIRING BOARD AND METHOD FOR MANUFACTURING OPTICAL WIRING BOARD

and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below:

filed on August 16, 2006, Serial No. 10/589604; and

Whereas

HAMAMATSU PHOTONICS K.K.
 1126-1, Ichino-cho,
 Hamamatsu-shi, Shizuoka 435-8558 Japan

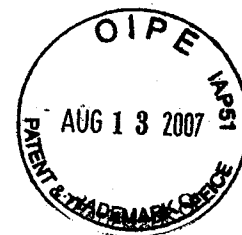
(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;

NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

INVENTORSDATE SIGNED

| | | |
|-------|----------------------------|------------------------|
| 1): | <u>Yoshihisa Warashina</u> | <u>August 25, 2006</u> |
| Name: | Yoshihisa WARASHINA | |
| 2): | <u>Y. Hoshino</u> | <u>August 29, 2006</u> |
| Name: | Yasuji HOSHINO | |
| 3): | <u>Hajime Takeyama</u> | |
| Name: | Hajime TAKEYAMA | |
| 4): | <u>Masaaki Muto</u> | <u>August 25, 2006</u> |
| Name: | Masaaki MUTO | |



The official date stamp of the United States Patent and Trademark Office hereon is acknowledgment of the filing of:

I. Application

- ☐ A. New Application
☐ Provisional
☐ Utility
☐ Design
☐ Plant
☐ B. Continuation/Divisional/Continuation-In-Part
☐ § 1.53(b)
☐ § 1.53 (f) – fee not included
☐ C. Specification: _____ Sheet(s)
☐ D. _____ Claim(s)
☐ E. Drawing(s)
☐ Formal
☐ Informal
☐ F. Small Entity
☒ G. Combined Declaration & Power of Attorney

II. Prosecution Documents

- ☐ A. Request for Correction of Official Filing Receipt
☒ B. Response to Notice of Missing Parts/Incomplete Application
☒ 3 Month Extension of Time
☐ C. Claim to Priority & Priority Document(s)
☐ D. Information Disclosure Statement
☐ PTO Form 1449 – _____ page(s)
☐ _____ Prior Art Reference(s)
☐ E. Issue Fee
☐ Form PTOL-85
☐ Request for _____ Soft Copies
☐ F. Formal Drawing(s): _____ Sheet(s)

III. Post Issuance

- ☐ A. _____ Maintenance Fee
☐ B. Request for Correction of Letters Patent

IV. Recordation

- ☒ A. Assignment Agreement (Number of Patents Covered: 1)
☐ B. Security Interest Agreement (Number of Patents Covered: _____)
☐ C. Change of Name, Merger or Other Transfer Document (Number of Patents Covered: _____)
☒ D. PTO Recordation Form Cover Sheet

VI. Payment

- ☒ Check No. 38429 for \$1060.00
☐ Deposit Account No. _____ for \$_____
☐ No Fee

VII. Other

- ☒ A. Transmittal Letter
☐ B. Power of Attorney
☐ C. Appointment of Domestic Representative
☐ D. Change of Correspondent's Address
☒ E. PTO SB/17 Fee Transmittal Form;
PTO SB/21 Transmittal Form

Date: August 13, 2007
Client No.: 46884
File No.: 46884-5506
Matter No.: 230288
Title: Optical Wiring Board and Method for Manufacturing Optical Wiring Board
Inventor(s): Yoshihisa WARASHINA et al.
Serial/Patent. No. 10/589,604
Attorney: Joseph J. Buczynski, Reg. No. 35,084
Secretary: Rozanne Esparza

⑤ myb 8/13/07

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| | | | |
|--|--|--------------------------|---------------------|
| Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). <h2 style="margin: 0;">FEE TRANSMITTAL</h2> <h3 style="margin: 0;">For FY 2005</h3> | | Complete if Known | |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27 | | Application Number | 10/589,604 |
| | | Filing Date | August 16, 2006 |
| | | First Named Inventor | Yoshihisa WARASHINA |
| | | Examiner Name | Unassigned |
| | | Art Unit | 2874 |
| TOTAL AMOUNT OF PAYMENT (\$) 1060.00 | | Attorney Docket No. | 46884--5506 |

METHOD OF PAYMENT (check all that apply)

☒ Check
 ☐ Credit Card
 ☐ Money Order
 ☐ None
 ☐ Other (please identify): _____

☐ Deposit Account
 Deposit Account Number: 50-0573
 Deposit Account Name: Drinker Biddle & Reath

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below
 ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17
 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

| Application Type | FILING FEES | | SEARCH FEES | | EXAMINATION FEES | | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
| | Fee (\$) | Small Entity Fee (\$) | Fee (\$) | Small Entity Fee (\$) | Fee (\$) | Small Entity Fee (\$) | |
| Utility | 300 | 150 | 500 | 250 | 200 | 100 | |
| Design | 200 | 100 | 100 | 50 | 130 | 65 | |
| Plant | 200 | 100 | 300 | 150 | 160 | 80 | |
| Reissue | 300 | 150 | 500 | 250 | 600 | 300 | |
| Provisional | 200 | 100 | 0 | 0 | 0 | 0 | |

2. EXCESS CLAIM FEES

| Fee Description | Fee (\$) | Small Entity Fee (\$) |
|--|----------|-----------------------|
| Each claim over 20 (including Reissues) | 50 | 25 |
| Each independent claim over 3 (including Reissues) | 200 | 100 |
| Multiple dependent claims | 360 | 180 |

Total Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)**
 _____ - 20 or HP = _____ x _____ = _____

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)**
 _____ - 3 or HP = _____ x _____ = _____

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
|--------------|--------------|--|----------|---------------|
| _____ | _____ | _____ / 50 = _____ (round up to a whole number) | x _____ | = _____ |

4. OTHER FEE(S)

| Description | Fees Paid (\$) |
|--|----------------|
| Non-English Specification, \$130 fee (no small entity discount) | |
| Other (e.g., late filing surcharge): <u>Response w/3 Month Extension of Time; Declaration and Assignment</u> | \$1060.00 |

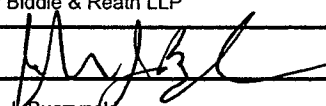
| | | |
|---------------------------------------|--|------------------------|
| SUBMITTED BY | | |
| Signature | Registration No. (Attorney/Agent) 35,084 | Telephone 202-842-8806 |
| Name (Print/Type) Joseph V. Buczynski | Date August 13, 2007 | |

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| | | | |
|--|----------------------|------------------------|------------|
| TRANSMITTAL FORM | Application Number | 10/589,604 | |
| | Filing Date | August 16, 2006 | |
| | First Named Inventor | Yoshihisa WARASHINA | |
| | Art Unit | 2874 | |
| | Examiner Name | Unassigned | |
| (to be used for all correspondence after initial filing) | | Attorney Docket Number | 46884-5506 |
| Total Number of Pages in This Submission | | 10 | |

| ENCLOSURES (Check all that apply) | | |
|--|--|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input checked="" type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input checked="" type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): DBR Filing Cover Sheet Fee Transmittal Form Combined Declaration and Power of Attorney Recordation and Assignment |
| <div style="border: 1px solid black; padding: 5px; min-height: 100px;"> Remarks </div> | | |
| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT | | |
| Firm Name | Drinker Biddle & Reath LLP | |
| Signature |  | |
| Printed name | Joseph J. Buczynski | |
| Date | August 13, 2007 | Reg. No. 35,084 |

| CERTIFICATE OF TRANSMISSION/MAILING | | |
|---|--|------|
| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: | | |
| Signature | | |
| Typed or printed name | | Date |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | |
|--|---|------------------------|
| In re Application of: Yoshihisa WARASHINA et al. |) | Confirmation No.: 2689 |
| |) | |
| U.S. Application No.: 10/589,604 |) | Group Art Unit: 2874 |
| |) | |
| Filed: August 16, 2006 |) | Examiner: Unassigned |
| |) | |
| For: OPTICAL WIRING BOARD AND METHOD |) | |
| FOR MANUFACTURING OPTICAL WIRING |) | |
| BOARD |) | |

MAIL STOP PCT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**FURTHER RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS
UNDER 35 U.S.C. § 371 IN THE U.S. DESIGNATED/ELECTED OFFICE (DO/EO/US)**

1. This further replies to the Notification of Missing Requirements (Form PCT/DO/EO/905) mailed April 2, 2007. The due date for which is extended to September 2, 2007.

A copy of the Notification of Missing Requirements (Form PCT/DO/EO/905) is enclosed.

2. Declaration Or Oath

☒ Enclosed is the Declaration and Power of Attorney as executed by Hajime TAKEYAMA. It is noted that the address for Mr. Takeyama was updated to indicate his current residence prior to Mr. Takeyama's execution of the declaration.

☐ The specification attached to the declaration is a copy of the specification and any amendments thereto which were filed in the PTO to obtain the filing date.

☐ The declaration or oath which was filed was determined to be defective. A new original Combined Declaration and Power of Attorney is attached.

3. English Translation of Non-English Language Papers

☐ Submitted herewith is a verified English translation of the non-English language application papers as originally filed. It is requested that this translation be used as the copy for examination purposes in the PTO.

☐ Also enclosed is the Verification of Translation Document

4. Small Entity Statement(s)

☐ Applicant(s) hereby assert small entity status.

5. Fee Calculation

| | | | Basic National Stage Fee: \$300.00 | Previously Paid |
|---|--------------|--------------|---------------------------------------|-----------------|
| | Number Filed | Number Extra | at a Rate of | |
| Total Claims | 12 -20 = | 0 | \$50.00 each= | \$0.00 |
| Independent Claims | 3 - 3 = | 0 | \$200.00 each= | \$0.00 |
| Multiple dependent claim(s), if any | | | \$360.00 | \$0.00 |
| Missing Requirements Surcharge Fee | | | \$130.00 | Previously Paid |
| Application Size Fee \$250.00 for each additional 50 sheets that exceeds 100 | | | | \$0.00 |
| Application Search Fee | | | \$400.00 | Previously Paid |
| Examination Fee | | | \$200.00 | Previously Paid |
| | | | SUB-TOTAL = | \$0.00 |
| Fee For Application Filed With A Non-English Specification (37 C.F.R. § 1.17(k) and § 1.52(d)) | | | \$130.00 | \$0.00 |
| Fee For Processing and retention of application (37 C.F.R. § 1.21(l) and § 1.53(d)) | | | \$130.00 | \$0.00 |
| | | | TOTAL FILING FEE = | \$0.00 |

6. Extension of Time

The proceedings herein are for a patent application and the provisions of 37 C.F.R. § 1.136(a) apply.

☒ Applicants petition for an extension of time, the fees for which are set out in 37 C.F.R. §§ 1.17(a)-(d), for the total number of months checked below:

| | <u>Total Months Requested</u> | <u>Extension Fee</u> | <u>Extension Fee [Small Entity]</u> |
|-------------------------------------|-------------------------------|----------------------|-------------------------------------|
| <input type="checkbox"/> | One month | \$120.00 | \$60.00 |
| <input type="checkbox"/> | Two months | \$450.00 | \$225.00 |
| <input checked="" type="checkbox"/> | Three months | \$1,020.00 | \$510.00 |
| <input type="checkbox"/> | Four months | \$1,590.00 | \$795.00 |
| <input type="checkbox"/> | Five months | \$2,160.00 | \$1,080.00 |

Extension of time fee due with this request: \$1020.00

If an additional extension of time is required, please consider this a Petition therefor.

☐ Applicant believes that no extension of time is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.

7. Fee Payment

| | | |
|-----------------------|----------------------------|-----------|
| The total fee due is: | Three-Month Extension Fees | \$1020.00 |
| | Assignment Fees | \$ 40.00 |
| | Total Fee Due | \$1060.00 |

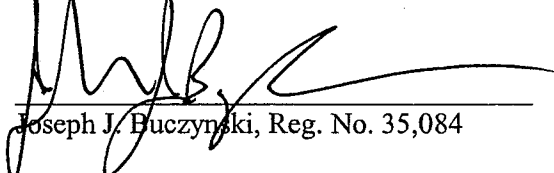
- ☒ A check in the amount of \$1060.00 to cover the above fees is enclosed
- ☐ The Commissioner is hereby authorized to charge the total fee due to Deposit Account 50-0573.
- ☒ Except for issue fees payable under 37 C.F.R. §1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R §1.16 and §1.17 which may be required, or credit any overpayment to Deposit Account No. 50-0573.

8. Additional papers enclosed.

- ☐ PCT/IB/338 English translation of the International Preliminary Examination Report
- ☐ PCT/IB/373
- ☐ PCT/ISA/237
- ☐ PCT/ISA/210 (International Search Report dated)
- ☐ Information Disclosure Statement
- ☐ Form PTO-1449, non-US patent documents as listed
- ☒ Assignment Recordation Cover Sheet (PTO Form-1595)
- ☒ Assignment of the invention to HAMAMATSU PHOTONICS K.K.

Respectfully submitted,

DRINKER BIDDLE & REATH LLP



 Joseph J. Buczynski, Reg. No. 35,084

Date: August 13, 2007

Customer No. 055694

DRINKER BIDDLE & REATH LLP

1500 K. Street, N.W., Suite 1100

Washington, DC 20005-1209

Tel: (202) 842-8800

Fax: (202) 204-0289

FORM PTO-1595
(Rev. 6-93)

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

Attorney Docket No.: 46884-5506

To the Commissioner for Patents

ATTN: MAIL STOP ASSIGNMENT RECORDATION SERVICES

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

1) Hajime TAKEYAMA

Additional names of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: HAMAMATSU PHOTONICS K.K.

Address: 1126-1, Ichino-cho,
Hamamatsu-shi, Shizuoka 435-8558 Japan

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Additional name(s) & address(es) attached?

☐ Yes ☒ No

Execution Date: July 27, 2007

4. New Application number(s) or patent number(s):

If this document is being filed together with a new application the execution date of the application is:

A. Patent Application No.(s) 10/589,604

B. Patent No.(s)

Additional numbers attached: ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Joseph J. Buczynski

Internal Address: DRINKER BIDDLE & REATH LLP
Customer No. 55694

Street Address: 1500 K. Street, N.W., Suite 1100
City: Washington State: D.C. Zip: 20005-1209

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. §3.41): \$40.00

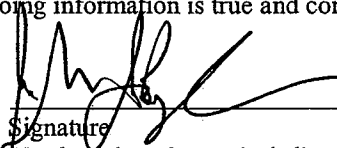
☒ Enclosed
☐ Authorized to be charged to Deposit Account 50-0573

8. Deposit Account No. 50-0573
(Attach duplicate page if paying by deposit account)

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Joseph J. Buczynski, Reg. No. 35,084
Name of Person Signing


Signature

August 13, 2007
Date

Total number of pages including cover sheet, attachments and documents: 5

ASSIGNMENT

Whereas, I/we,

NameAddress

| | |
|-------------------------------|--|
| 1) Yoshihisa WARASHINA | c/o Hamamatsu Photonics K.K., 1126-1, Ichino-cho, Higashi-ku, Hamamatsu-shi, Shizuoka 435-8558 Japan |
| 2) Yasuji HOSHINO | c/o Hamamatsu Photonics K.K., 1126-1, Ichino-cho, Higashi-ku, Hamamatsu-shi, Shizuoka 435-8558 Japan |
| 3) Hajime TAKEYAMA | 217-3, Dohon, Hamakita-ku, Hamamatsu-shi, Shizuoka 434-0032 Japan c/o Hamamatsu Photonics K.K., |
| 4) Masaaki MUTO | 1126-1, Ichino-cho, Higashi-ku, Hamamatsu-shi, Shizuoka 435-8558 Japan |

hereinafter called assignor(s), have invented certain improvements in
OPTICAL WIRING BOARD AND METHOD FOR MANUFACTURING OPTICAL WIRING BOARD

and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below:

filed on **August 16, 2006**, Serial No. **10/589604**; and
 Whereas

HAMAMATSU PHOTONICS K.K.

1126-1, Ichino-cho, Higashi-ku,
 Hamamatsu-shi, Shizuoka 435-8558 Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;

NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

INVENTORSDATE SIGNED

1):

Name: Yoshihisa WARASHINA

2):

Name: Yasuji HOSHINO

3):

Name: Hajime Takeyama
Hajime TAKEYAMA27 July, 2007

4):

Name: Masaaki MUTO